

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-607-3 REV. D
REF TCCA STC: SH94-14
REF FAA STC: SR00213NY
REF EASA STC: 10016996

1.0 PURPOSE

This Dart Service Instruction provides parts and instructions for modifying the D350-607-541/-543/-545/-547 Heli-Utality-Basket Assemblies for specialty mission equipment.

The DSI 9776-011/-013/-15 kits consist of the parts required to modify the basket base assembly of D350-607-541/-543/-545/-547 Heli-Utality-Basket Assemblies.

Note: All dimensions shown in parentheses [] are in millimeters, otherwise in inches.
It is not mandatory for all of the covers shown in this DSI Installation be installed.
Although not normally required, it is permissible for operators to use longer or shorter bolts and thinner or thicker washers to ensure that all fasteners are in safety (minimum of 1.5 threads exposed). **Bolts that do not have the minimum of 1.5 threads exposed after installation of the nut must be replaced with longer bolts by the customer.**
Min distance from edge of Basket to center of D5519-043 Doubler Assy = 5.5" [140 mm].
Min distance between D5519-043 Doubler Assy (measured center to center) = 7.0" [178 mm].
D5519-043 Doubler Assy cannot placed over the basket ribs.
D5519-043 Doubler must be installed on the flat portion of the expanded metal (Bottom or sides of basket).
All welding must be per MIL-STD-2219/AMS-STD-2219 Class 'C' using ER308L or ER316L filler rod.

2.0 INSTALLATION OF DSI 9776-011 END COVER KIT (Short Basket Assembly):

Note: This section provides instructions to install a D5519-041 Doubler Assy with a D5519-3 Cover Plate in both ends of the basket. It is also acceptable to install these parts at one end of the basket only.

- 2.1 At the customer's discretion, disassemble D4032-041 Short Basket Assembly by removing D4018-041/D4019-041 Short Basket Lid Assembly and retain hardware to facilitate this modification.
- 2.2 Locate the D3916-041 Rib Assembly at each end of the D4017-041 Short Basket Base Assy as shown in Figure 3. Partially remove the expanded metal as shown in Figure 3 Sections C-C & D-D.
- 2.3 Mark and drill 2x 0.375" holes at each end of the D3916-041 Rib Assemblies as shown in Figure 2 per Section A-A & B-B. Countersink 0.375" holes in the rib to 0.435 x 45 on both sides of the ribs. Deburr holes.
- 2.4 Drill 4x 0.098" (#40 drill) for MS21059L3 anchor nuts thru only the wall of each of the D3916-041 Rib Assembly on the D4017-041 Short Basket Base Assy as shown in Figure 2. Deburr holes.
- 2.5 Weld 4x D4021-9 Bushings into 0.375" holes and grind flush on both sides of the D4016-041 Rib Assemblies per Figure 2.
- 2.6 Install MS21059L3 anchor nuts per Figure 3.
- 2.7 Temporarily position the D5519-041 Doubler Assy by aligning the two bottom holes with the two bottom bushing holes on each of the D3916-041 Rib Assy. Locally trim (0.13" - 0.25") the expanded metal that overlaps with any of the MS21059L3 anchor nuts as shown in Figure 3 Section C-C and D-D.
- 2.8 Tig weld (tack weld) expanded metal at every available location attaching the D5519-041 Doubler Assy to the D3916-041 Rib Assemblies. Also tack weld the two packers into the bottom with the D3916-041 Rib Assemblies.
- 2.9 If incorporating this DSI during basket production, powder coat entire basket base per D4017 drawing. Mask MS21059L3 anchor nut holes prior to powder coat.
- 2.10 If incorporating this DSI post basket production, paint repaired areas per ICA-D350-607.

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AIRCRAFT CERTIFICATION
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DAO # 01-O-01

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D. SHEPHERD (DE # 02)

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MFG. APPR.	JFS	DSI 9776	SHEET 1 OF 14
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- 2.11 Install a D5519-3 Cover plate onto each end of the D4017-041 Basket Base Assy using hardware as shown in Figure 1.
- 2.12 If applicable, re-assemble the modified D4032-041 Short Basket Assembly by attaching the modified D4017-041 Short Basket Base Assy to D4018-041/D4019-041 Short Basket Lid Assembly with the retained hardware.
- 2.13 Re-install basket per ICA-D350-607. Replace any worn hardware as necessary per Chapter 5 of ICA-D350-607.
- 2.14 Update the aircraft log book to indicate installation of the DSI 9776-011 End Cover Kit. Update the aircraft Weight and Balance per Section 7.0.

3.0 INSTALLATION OF DSI 9776-013 END COVER KIT (Long Basket Assembly):

Note: This section provides instructions to install a D5519-041 Doubler Assy with D5519-3 Cover Plate in both ends of the basket. It is also acceptable to install these parts at one end of the basket only.

- 3.1 At the customer's discretion, disassemble D4030-041 Long Basket Assembly by removing D3914-041/D3915-041 Long Basket Lid Assembly and retain hardware to facilitate this modification.
- 3.2 Locate the D3916-5 Rib at each end of the D3913-041 Long Basket Base Assy as shown in Figure 8. Partially remove the expanded metal as shown in Figure 8 Sections G-G & H-H.
- 3.3 Mark and drill 2x 0.297" holes at each end of the D3916-5 ribs as shown in Figure 7 Section E-E & F-F. Countersink 0.297" holes in the ribs to 0.357 x 45 in both sides of the ribs. Deburr holes.
- 3.4 Drill 4x 0.098" (#40 drill) for MS21059L3 anchor nuts thru only the wall of each of the D3916-5 Ribs on the D3913-041 Long Basket Base Assy as shown in Figure 7. Deburr holes.
- 3.5 Weld 4x D5338-1 Bushings into the 0.297" holes and grind flush on both sides of the D3916-5 Ribs.
- 3.6 Install MS21059L3 anchor nuts per Figure 8.
- 3.7 Temporarily position the D5519-041 Doubler Assemblies by aligning the two bottom holes with the two bottom bushing holes on each of the D3916-5 Ribs. Locally trim (0.13" - 0.25") the expanded metal that overlaps with any of the MS21059L3 anchor nuts as shown in Figure 8 Section G-G and H-H.
- 3.8 Tig weld (tack weld) expanded metal at every available location attaching the D5519-041 Doubler Assy on the D3916-5 Ribs. Also tack weld the two packers into the bottom with the D3916-5 Ribs.
- 3.9 If incorporating this DSI during basket production, powder coat entire basket base per D3913 drawing. Mask MS21059L3 anchor nut holes prior to powder coat.
- 3.10 If incorporating this DSI post basket production, paint repaired areas per ICA-D350-607.
- 3.11 Install a D5519-3 Cover plate onto each end of the D3913-041 Long Basket Base Assy using hardware as shown in Figure 6.
- 3.12 If applicable, re-assemble the modified D4030-041 Long Basket Assembly by attaching modified D3913-041 Long Basket Base Assy to D3914-041/D3915-041 Long Basket Lid Assembly with the retained hardware.
- 3.13 Re-install basket per ICA-D350-607. Replace any worn hardware as necessary per Chapter 5 of ICA-D350-607.
- 3.14 Update the aircraft log book to indicate installation of the DSI 9776-013 End Cover Kit. Update the aircraft Weight and Balance per Section 7.0.


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4.0 INSTALLATION OF DSI 9776-015 ROUND COVER KIT (Short Basket Assembly):

Note: This section provides instructions to install 4x D5519-043 Doubler Assy with 4x D5519-9 Cover Plates on the bottom base of the D4017-041 Short Basket Base Assy. It is also acceptable to install a portion of the DSI 9776-015 Kit.

- 4.1 Temporarily position 4x D5519-043 Doubler Assemblies on the base of the expanded metal of the D4017-041 Basket Base Assy. Mark and trim 4.40" from the center of the doubler assemblies. Locally trim (0.13" - 0.25") the expanded metal that overlaps any of the MS21059L3 anchor nuts as shown in Figure 5.
- 4.2 Tig weld (tack weld) expanded metal at every available location with the D5519-043 Doubler Assy.
- 4.3 If incorporating this DSI during basket production, powder coat entire basket base per D4017 drawing. Mask MS21059L3 anchor nut holes prior to powder coat.
- 4.4 If incorporating this DSI post basket production, paint repaired areas per ICA-D350-607.
- 4.5 Install 4x D5519-9 Cover plates onto the bottom of the D4017-041 Short Basket Base Assy using hardware as shown in Figure 4.
- 4.6 If applicable, re-assemble the modified D4032-041 Short Basket Assembly by attaching the modified D4017-041 Short Basket Base Assy to D4018-041/D4019-041 Short Basket Lid Assembly with the retained hardware.
- 4.7 Re-install basket per ICA-D350-607. Replace any worn hardware as necessary per Chapter 5 of ICA-D350-607.
- 4.8 Update the aircraft log book to indicate installation of the DSI 9776-015 Round Cover Kit. Update the aircraft Weight and Balance per Section 7.0

5.0 INSTALLATION OF DSI 9776-015 ROUND COVER KIT (Long Basket Assembly):

Note: This section provides instructions to install 4x D5519-043 Doubler Assy with 4x D5519-9 Cover Plates on the bottom base of the D3913-041 Long Basket Base Assy. It is also acceptable to install a portion of the DSI 9776-015 Kit.

- 5.1 Temporarily position 4x D5519-043 Doubler Assemblies on the base of the expanded metal of D3913-041 Long Basket Base Assy. Mark and trim 4.40" from the center of the D5519-043 Doubler Assemblies. Locally trim (0.13" - 0.25") the expanded metal that overlaps any of the MS21059L3 anchor nuts as shown in Figure 10.
- 5.2 Tig weld (tack weld) expanded metal at every available location with the D5519-043 Doubler Assy.
- 5.3 If incorporating this DSI during basket production, powder coat entire basket base per D3913 drawing. Mask MS21059L3 anchor nut holes prior to powder coat.
- 5.4 If incorporating this DSI post basket production, paint repaired areas per ICA-D350-607.
- 5.5 Install 4x D5519-3 Cover plates onto the bottom of the D3913-041 Long Basket Base Assy using hardware as shown in Figure 9.
- 5.6 If applicable, re-assemble the modified D4030-041 Long Basket Assembly by attaching the modified D3913-041 Long Basket Base Assy to D3914-041/D3915-041 Long Basket Lid Assembly with the retained hardware.
- 5.7 Re-install basket per ICA-D350-607. Replace any worn hardware as necessary per Chapter 5 of ICA-D350-607.
- 5.8 Update the aircraft log book to indicate installation of the DSI 9776-015 Round Cover Kit. Update the aircraft Weight and Balance per Section 7.0

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6.0 PARTS LIST

QTY -011	QTY -013	QTY -015	PART NUMBER	DESCRIPTION
X			DSI 9776-011	END COVER KIT (SHORT BASKET)
	X		DSI 9776-013	END COVER KIT (LONG BASKET)
		X	DSI 9776-015	ROUND COVER KIT (SHORT/LONG BASKET)
	4		D4021-9	BUSHING
4			D5338-1	BUSHING
2	2		D5519-041	DOUBLER ASSEMBLY
		4	D5519-043	DOUBLER ASSEMBLY
2	2		D5519-3	COVER PLATE
		4	D5519-9	COVER PLATE
16	16	16	AN3-3A	BOLT
4	4		AN3-12A	BOLT
8	8		CCR274CS-3-02	RIVET, BLIND
20	20	16	NAS1149F0332P	WASHER

7.0 WEIGHT AND BALANCE:

The weight of these kits is added to the basket weight. It is the responsibility of the installer to ensure the limitations of FMS-D350-607 and FMS-D355-607 are not exceeded and to update the weight and balance information included in D350-607-3 and ICA-D350-607.


Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9776-011 End Cover Kit (Short Basket)	5.4 lb 2.4 kg	+/- 49.1 in +/- 1.25 m	+/- 265 in-lb +/- 3.0 m-kG	135 in 3.43 m	729 in-lb 8.2 m-kG
DSI 9776-013 End Cover Kit (Long Basket)	5.4 lb 2.4 kg	+/- 49.1 in +/- 1.25 m	+/- 265 in-lb +/- 3.0 m-kG	135 in 3.43 m	729 in-lb 8.2 m-kG
DSI 9776-015 Round Cover Kit (Short/Long Basket)	1.5 lb 0.7 kg	+/- 52.0 in +/- 1.32 m	+/- 78 in-lb +/- 0.9 m-kG	135 in 3.43 m	202 in-lb 2.4 m-kG

8.0 OPERATIONAL REQUIREMENTS:

- All equipment installed in the basket must be mechanically fastened to the basket if the D5519-3/-9 Covers Plate are removed.
- Only covers required for specific mission equipment should be removed.
- Equipment must not extend further than 6" (152 mm) beyond the outer edge of the basket.
- If basket is used for regular missions (ie hauling loose cargo), all covers must be installed.

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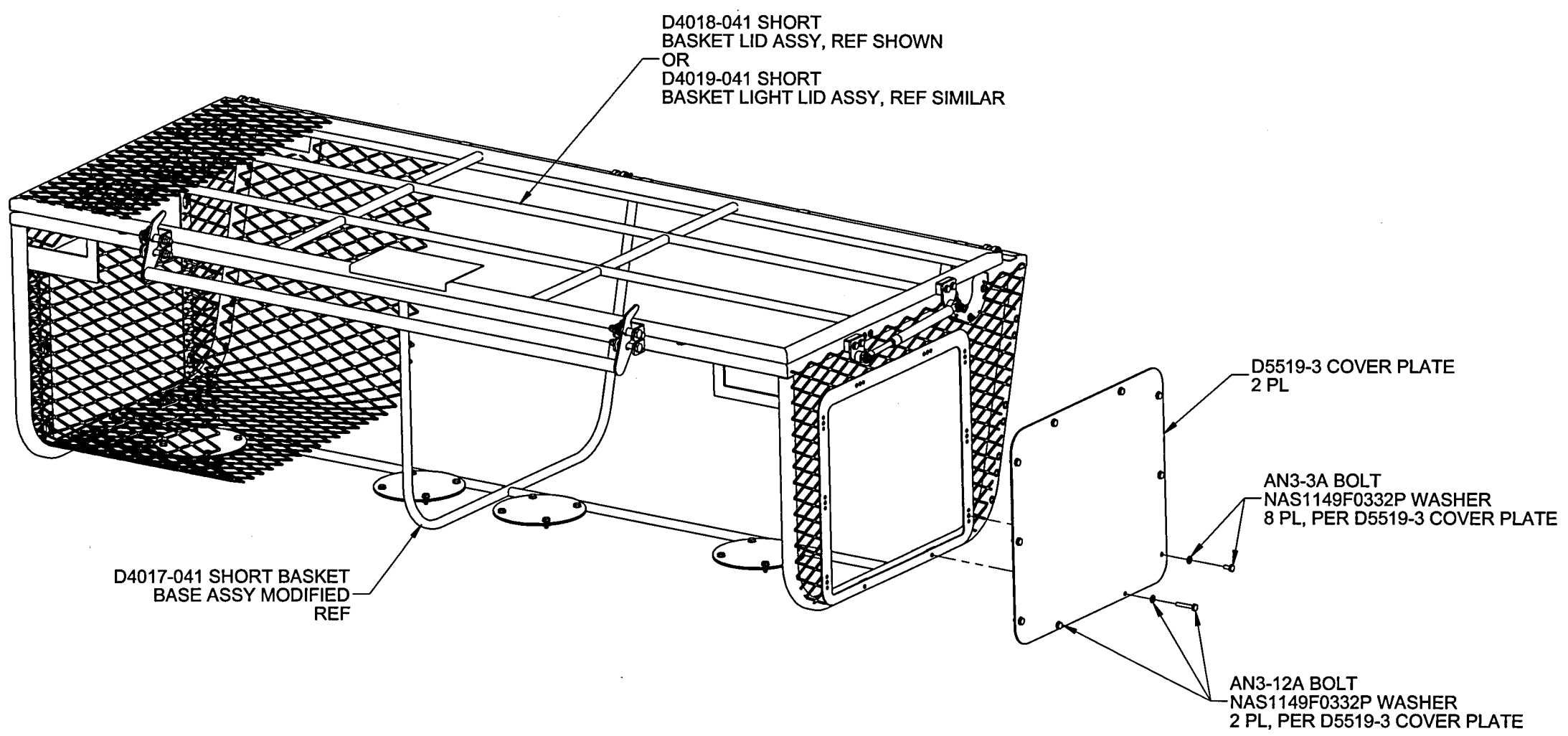
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**FIGURE 1 - DSI 9776-011 END COVER KIT INSTALLATION
ON D4032-041 SHORT BASKET ASSY**
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)

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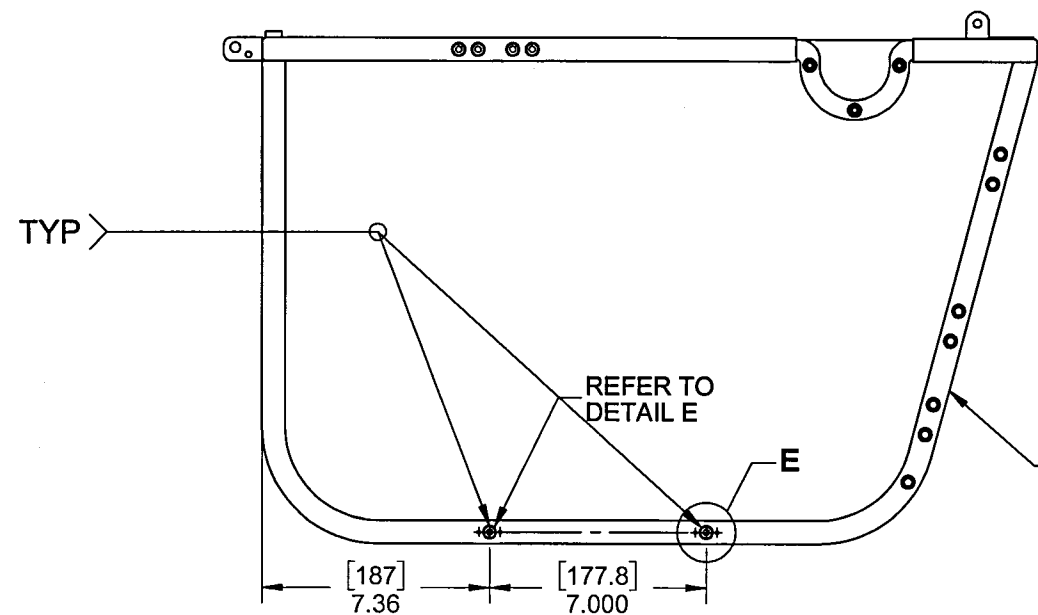
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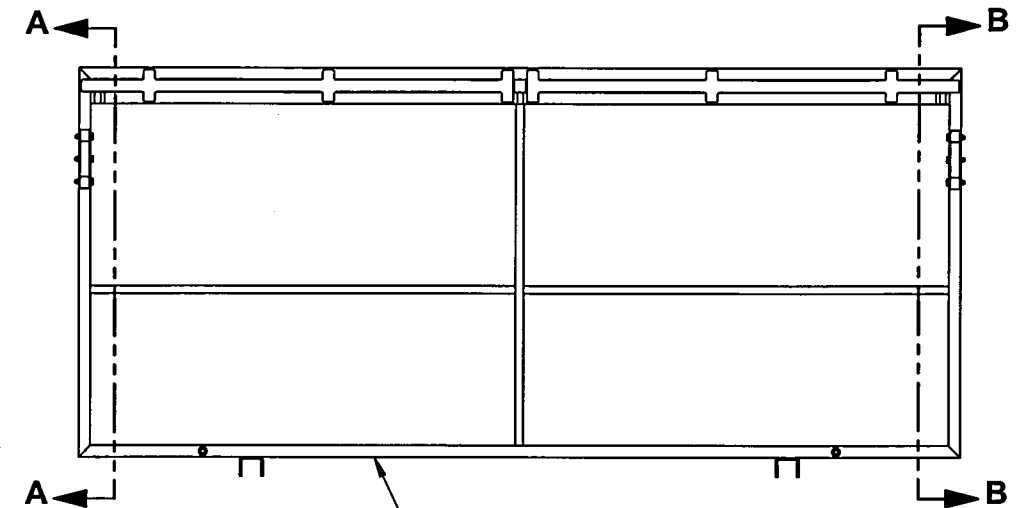
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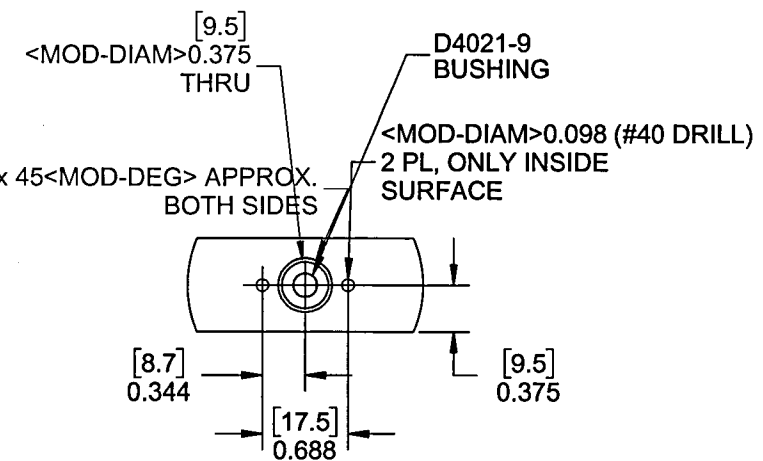
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SECTION A-A SHOWN
(SECTION B-B OPPOSITE)



D4017-041 SHORT
BASKET BASE MODIFIED, REF



DETAIL E
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**FIGURE 2 - DSI 9776-011 END COVER KIT INSTALLATION
ON D4032-041 SHORT BASKET ASSY - DETAIL**
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)

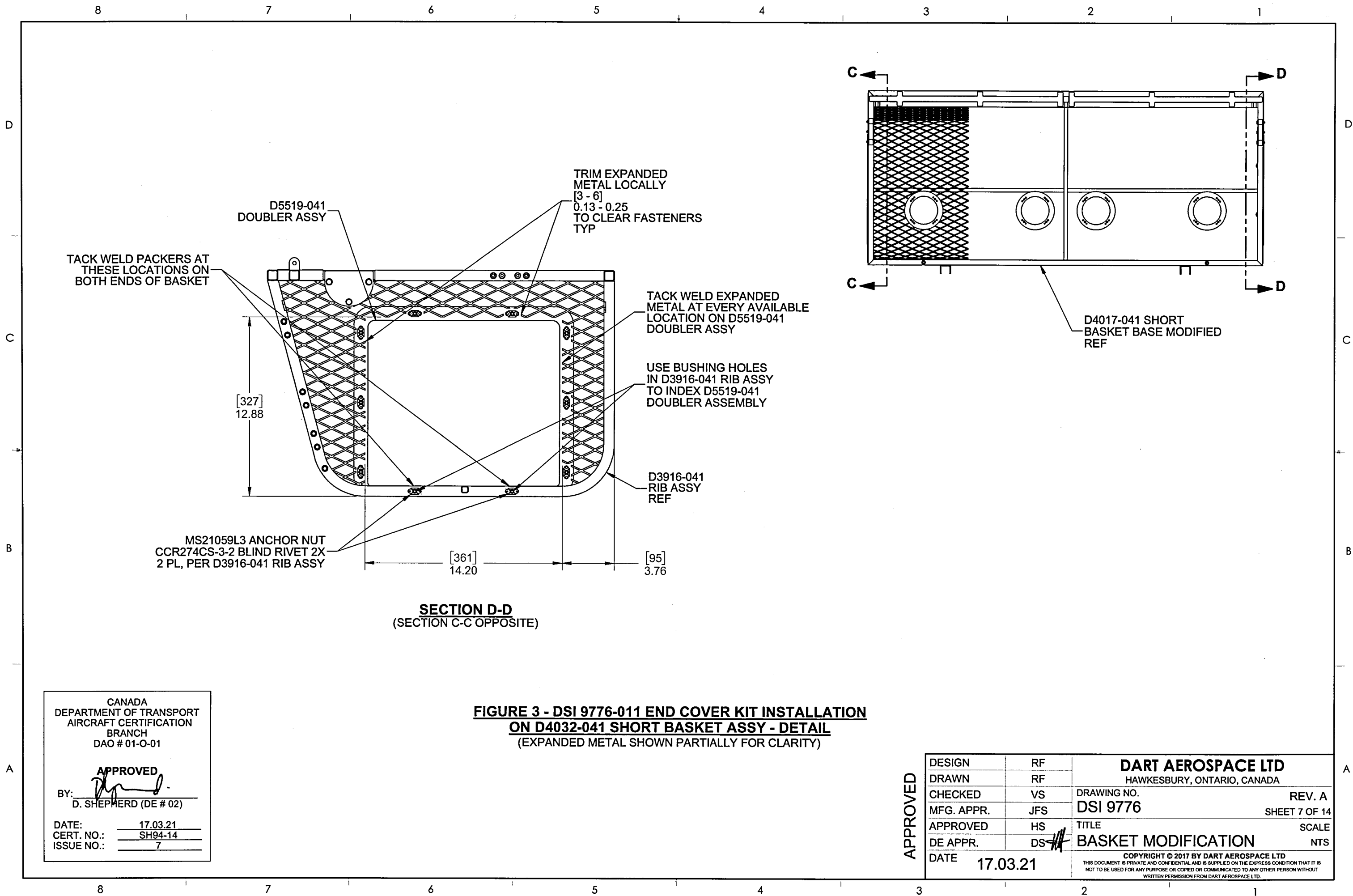
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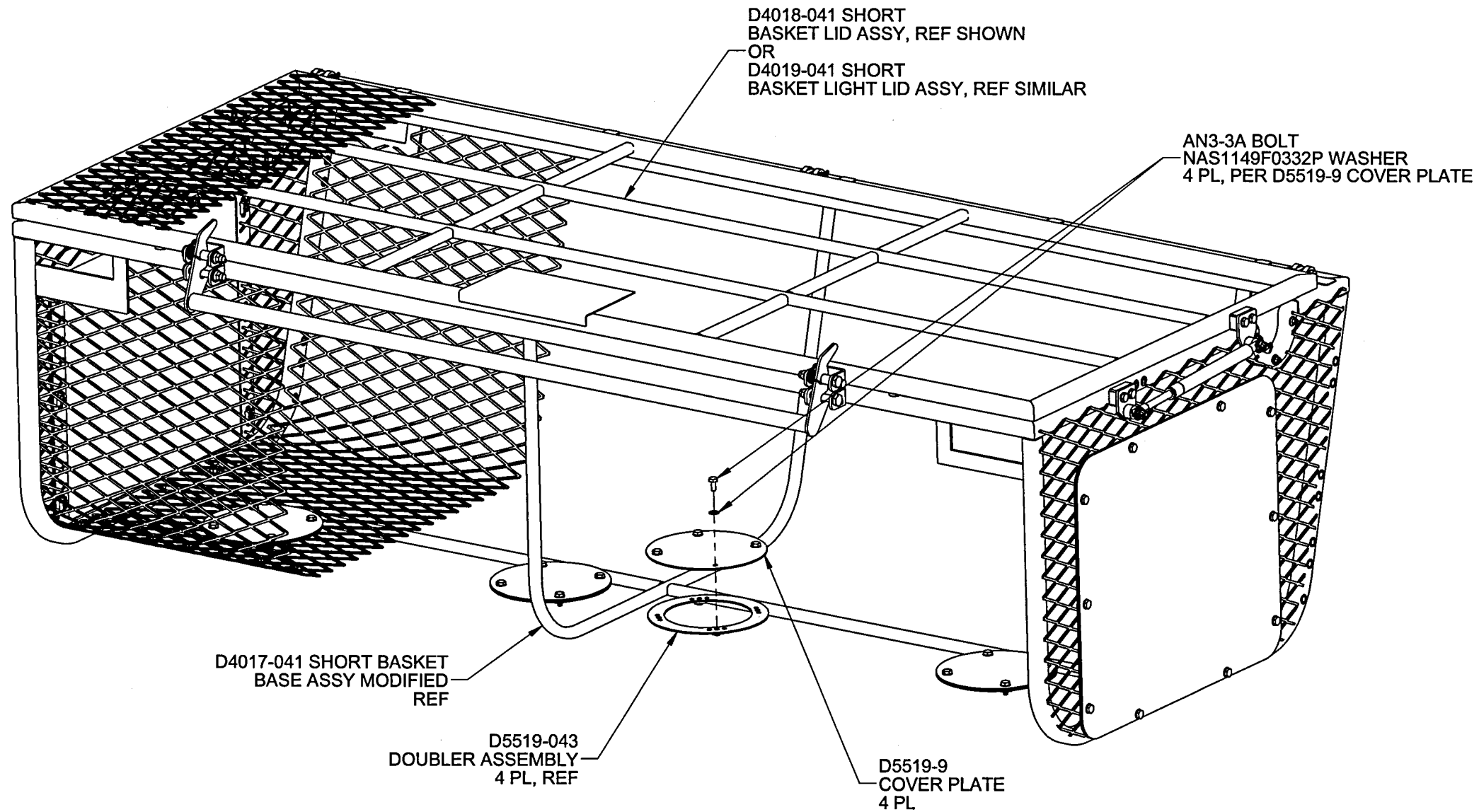
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**FIGURE 4 - DSI 9776-015 ROUND COVER KIT INSTALLATION
ON D4032-041 SHORT BASKET ASSY
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)**

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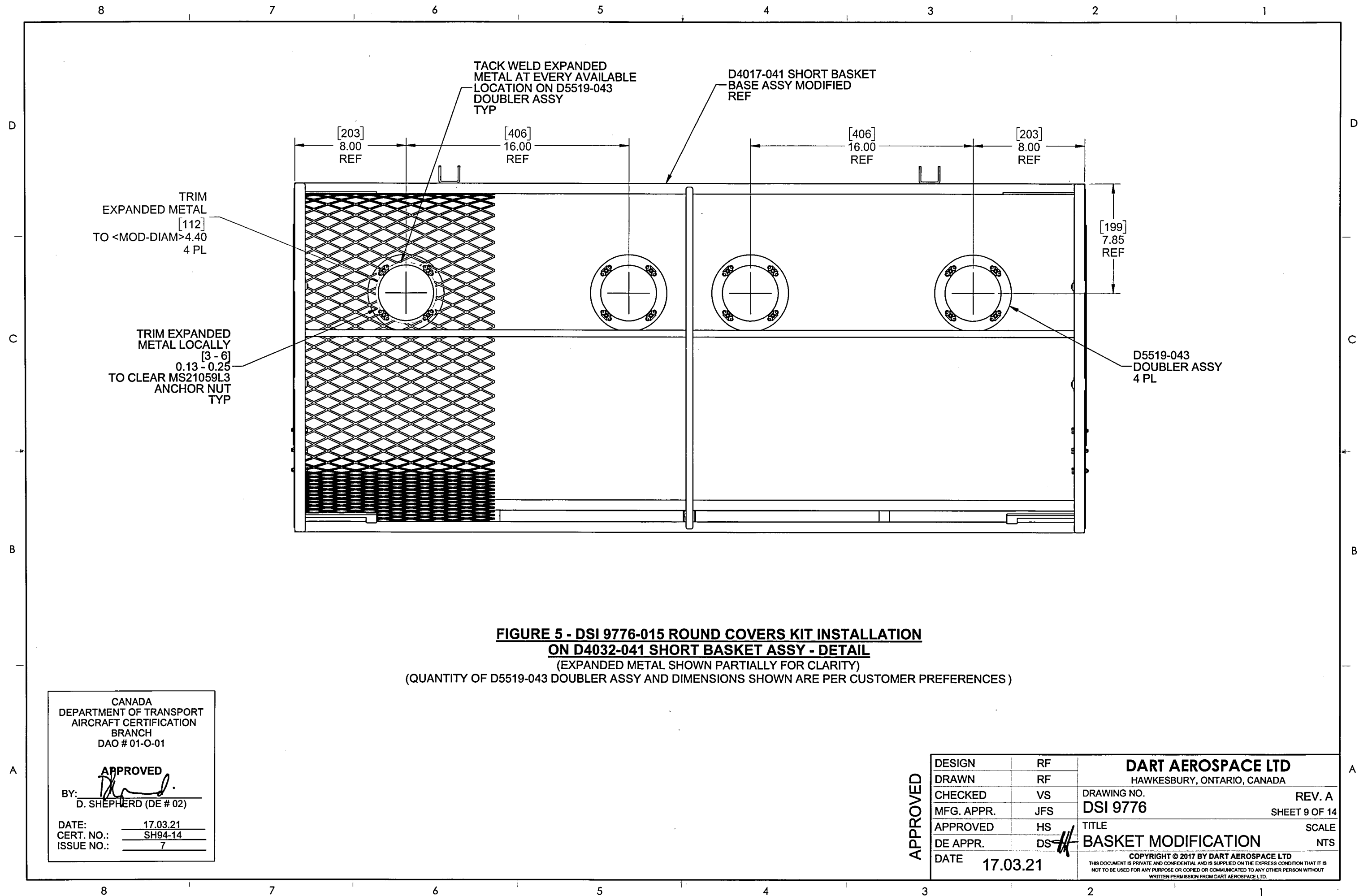
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**FIGURE 5 - DSI 9776-015 ROUND COVERS KIT INSTALLATION
ON D4032-041 SHORT BASKET ASSY - DETAIL**
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)
(QUANTITY OF D5519-043 DOUBLER ASSY AND DIMENSIONS SHOWN ARE PER CUSTOMER PREFERENCES)

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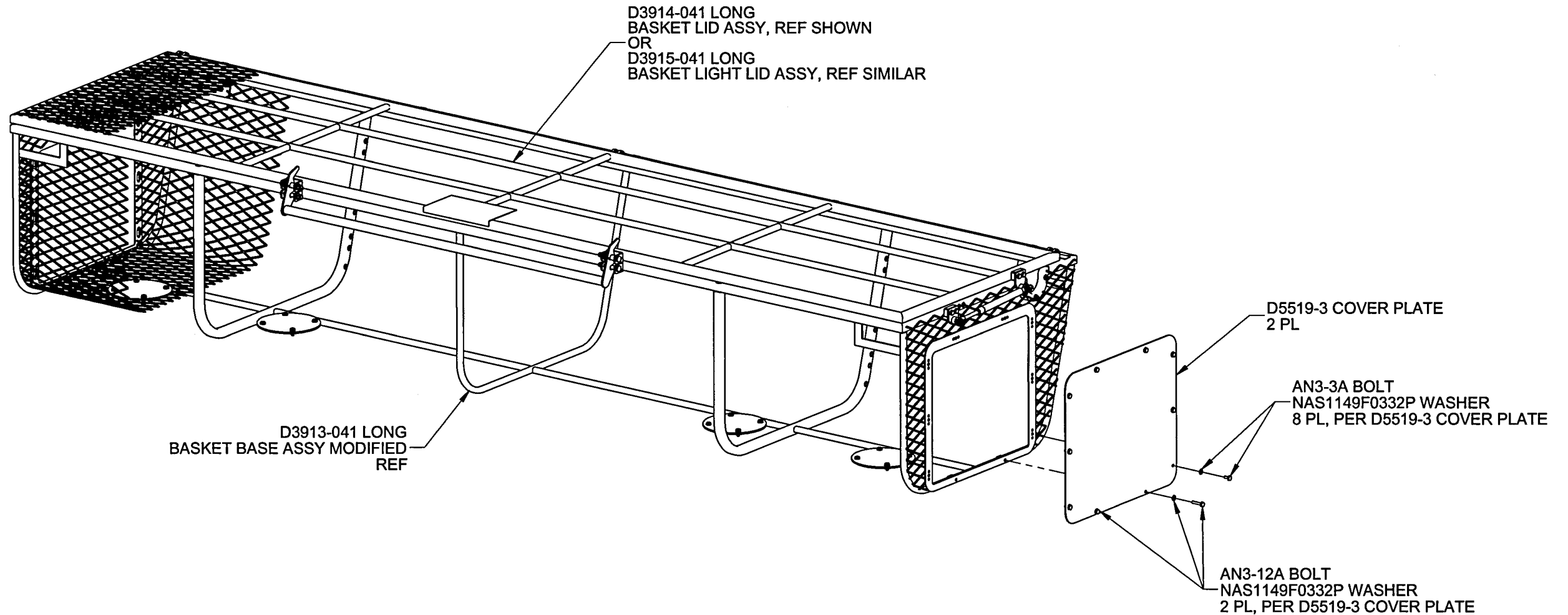
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**FIGURE 6 - DSI 9776-013 END COVER KIT INSTALLATION
ON D4030-041 LONG BASKET ASSY**
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)

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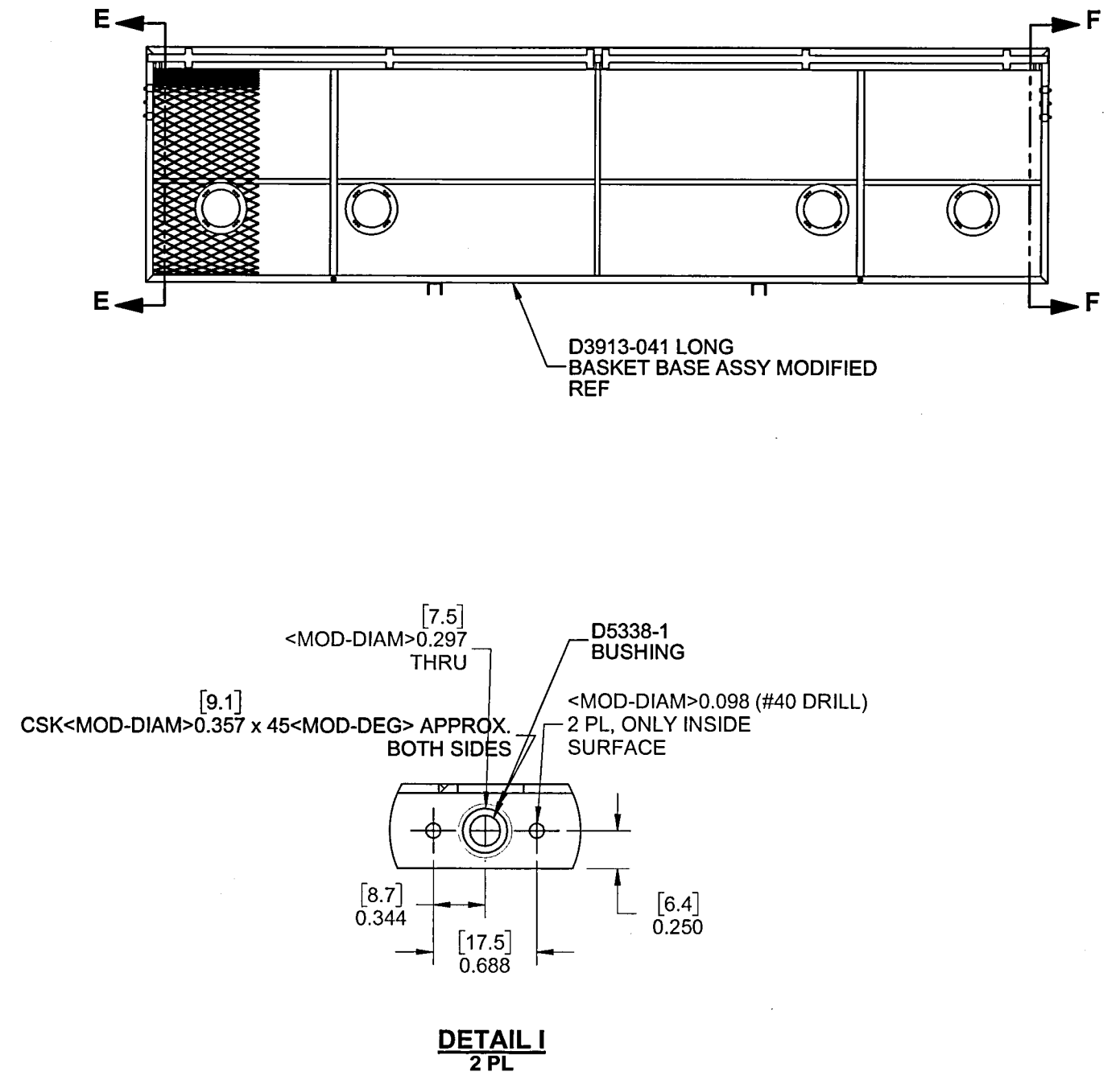
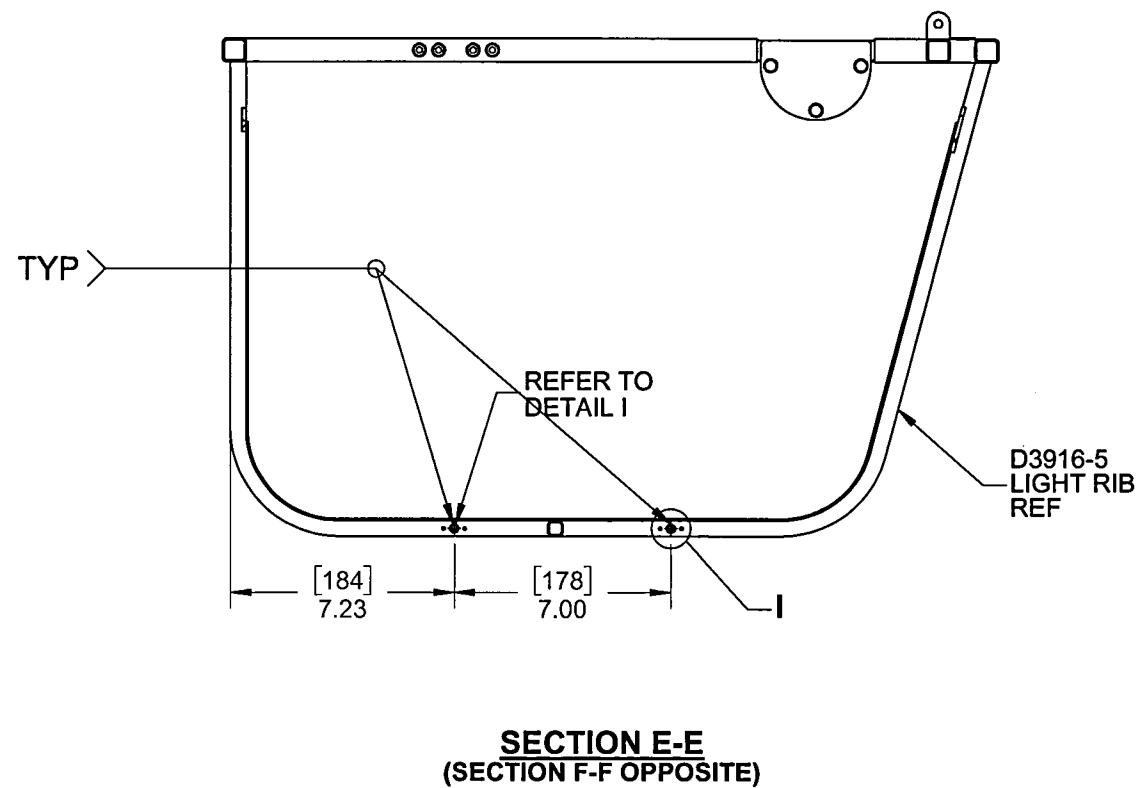
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**FIGURE 7 - DSI 9776-013 END COVER KIT INSTALLATION
ON D4030-041 LONG BASKET ASSY - DETAIL
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)**

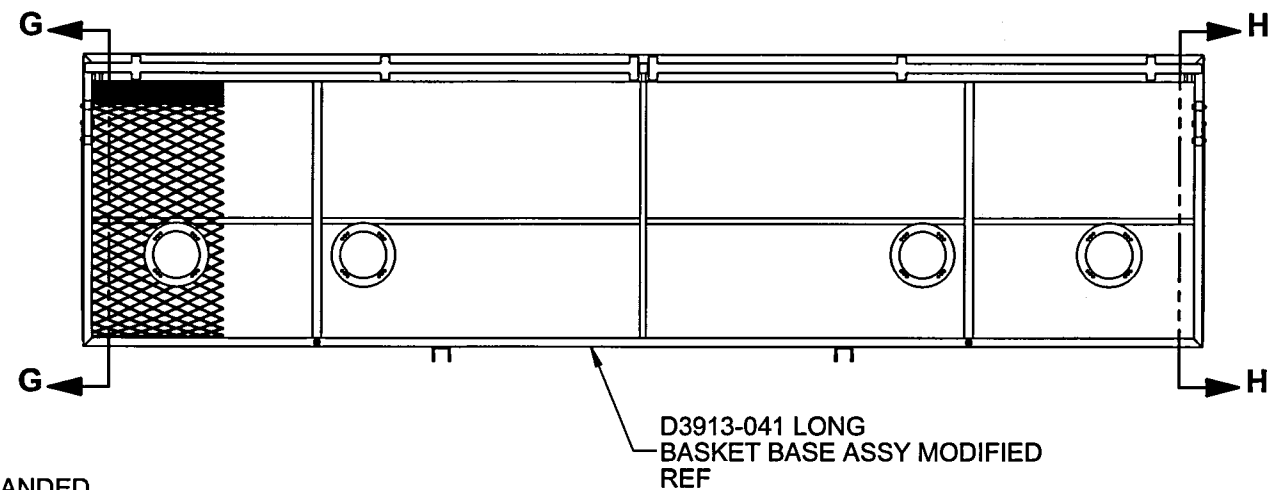
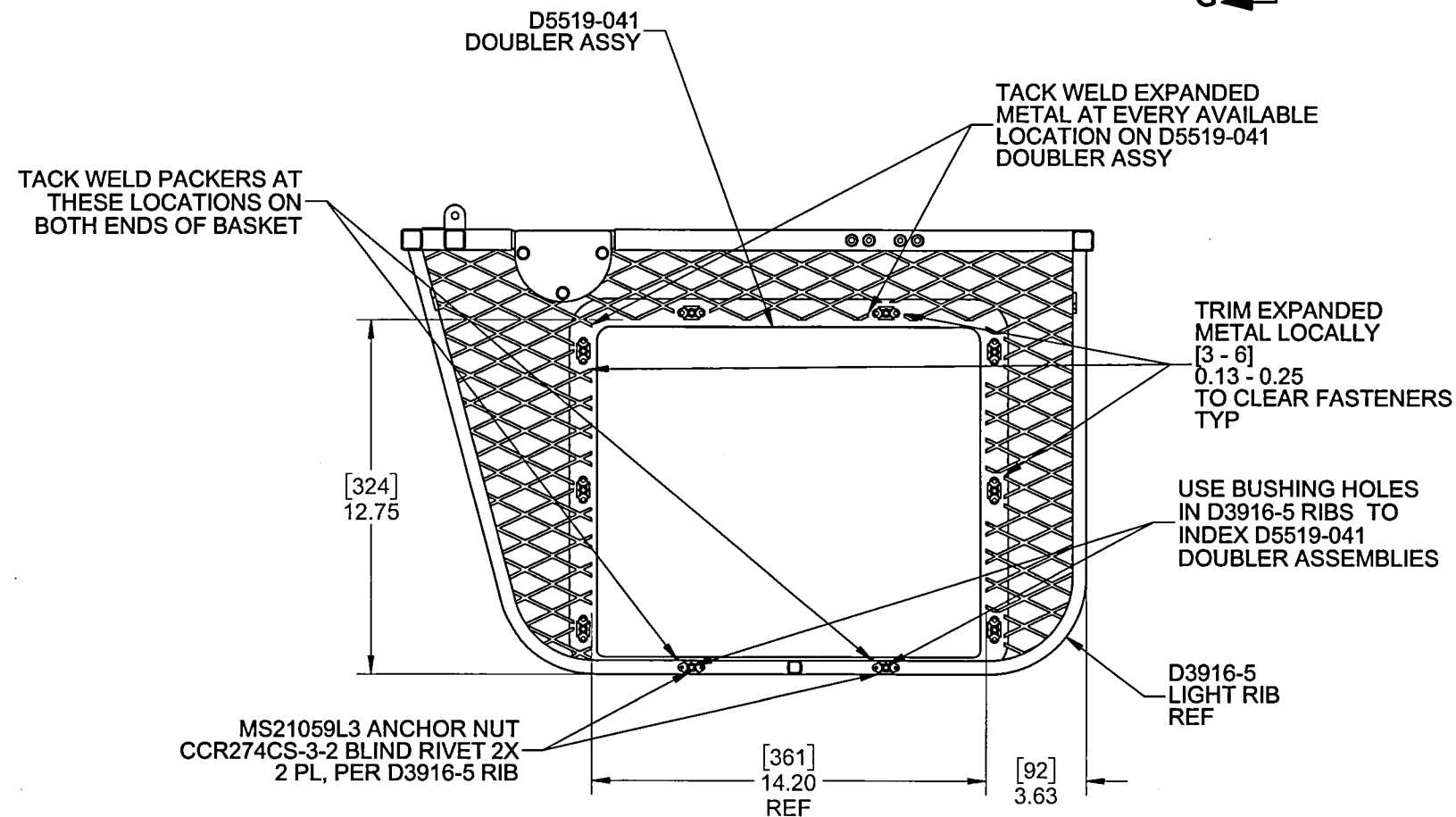
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**SECTION H-H SHOWN
(SECTION G-G OPPOSITE)**

**FIGURE 8 - DSI 9776-013 END COVER KIT INSTALLATION
ON D4030-041 LONG BASKET ASSY - DETAIL
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)**

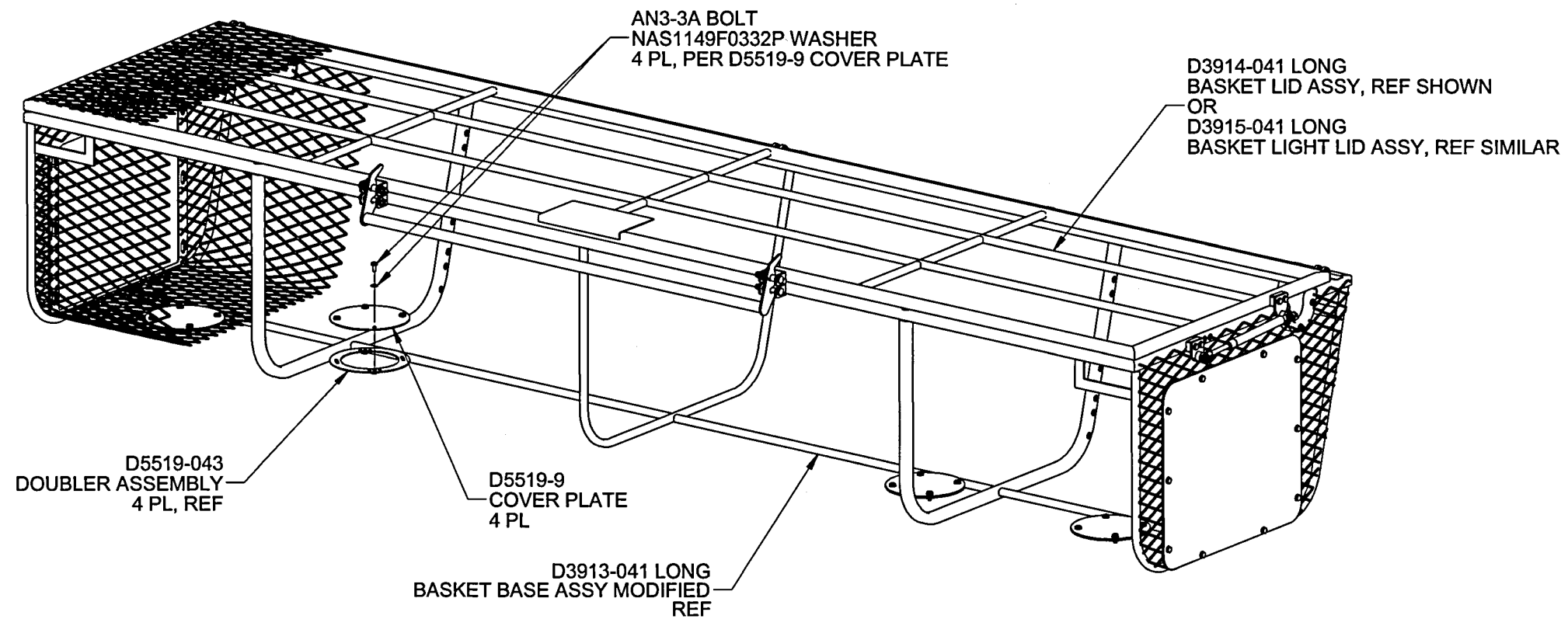
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CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

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**FIGURE 9 - DSI 9776-015 ROUND COVER KIT INSTALLATION
ON D4030-041 LONG BASKET ASSY**
(EXPANDED METAL SHOWN PARTIALLY FOR CLARITY)

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D. SHEPHERD (DE # 02)

DATE: 17.03.21
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